



MÉMOIRES
ET
COMPTES RENDUS
DE
LA SOCIÉTÉ ROYALE
DU
CANADA

TROISIÈME SÉRIE—TOME XLIX

SÉANCE DE JUIN 1955

OTTAWA
LA SOCIÉTÉ ROYALE DU CANADA

1955

PROCEEDINGS
AND
TRANSACTIONS
OF
THE ROYAL SOCIETY
OF
CANADA

THIRD SERIES—VOLUME XLIX
MEETING OF JUNE, 1955

OTTAWA
THE ROYAL SOCIETY OF CANADA
1955

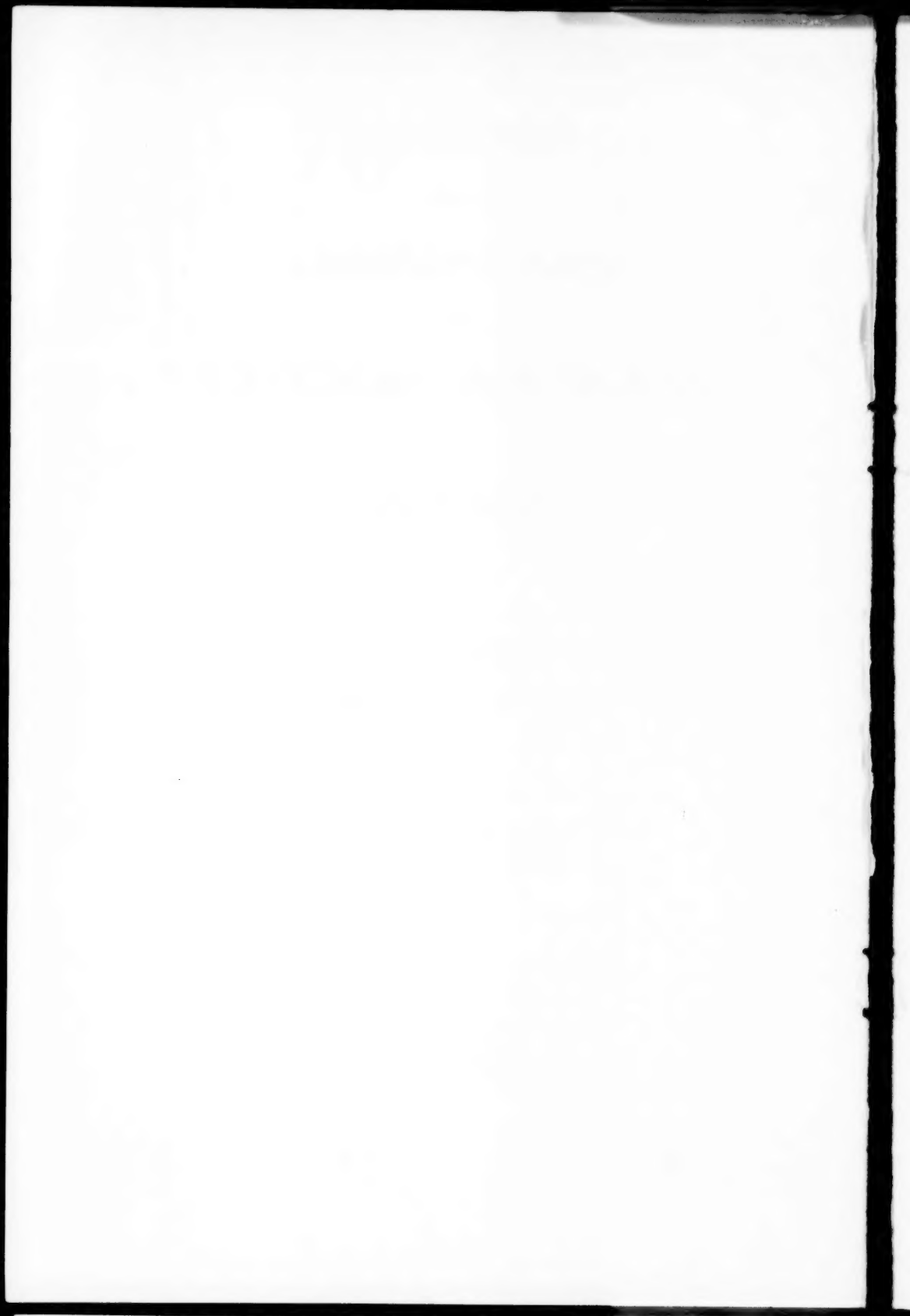


TABLE OF CONTENTS



List of Officers of the Society	1
Committees appointed for the year 1955-1956	2
List of Fellows	5
List of Corresponding Members	23
Awards of Chauveau, Flavelle, Henry Marshall Tory, Lorne Pierce, Tyrrell, and Willet G. Miller Medals	23
List of Presidents	24
List of Presidents of Sections	25
Associated Organizations	26
Report of the Honorary Secretary for the year 1954-1955	
Council Meetings	27
Minutes of the Seventy-Fourth Annual Meeting	29
Presentation of Medals	
Médaille Pierre Chauveau: Jean-Marie Gauvreau	35
Flavelle Medal: Charles Samuel Hanes	35
Henry Marshall Tory Medal: Edgar William Richard Steacie	36
Lorne Pierce Medal: William Bruce Hutchison	37
Tyrrell Medal: Charles Perry Stacey	38
Willet G. Miller Medal: John Tuzo Wilson	39
Reports of Sections	41

APPENDICES

APPENDIX A

Presidential Address, "Science and the National Academy," by E. W. R. STEACIE	49
--	----

APPENDIX B

Biographical Sketches of Deceased Members	
John A. Allan	59
Robert William Boyle	63
Milton Alexander Buchanan	69
Clive Elmore Cairnes	75
John William Campbell	79
Joseph John de Gryse	83
John Alexander Dresser	87
Donald Thomas Fraser	93
Auckland Campbell Geddes	99
René Guénette	105

Skuli Johnson	109
William D. Lighthall	113
Gilbert Norwood	117
Matthew A. Parker	123
Antonio Perrault	127
Bernard Keble Sandwell	133
Donald Young Solandt	137
Robert Meldrum Stewart	141
Robert Charles Wallace	145

APPENDIX C

Titles and Abstracts of Papers presented at the Annual Meeting	153
--	-----

SECTION I

<i>De l'action du « Monde Bilingue » — français-anglais — et de ses répercussions sur la vie canadienne.</i> Par JEAN DÉSY, M.S.R.C.	1
<i>Premiers principes d'une théorie de l'anglicisme.</i> Par JEAN-MARIE LAURENCE, M.S.R.C.	17
<i>La Paix et la guerre : deux fruits de l'éducation.</i> Par EUGÈNE L'HEUREUX, M.S.R.C.	21
<i>Les Mathématiques de nos ancêtres.</i> Par LÉON LORTIE, M.S.R.C.	31
<i>Jean-Baptiste Le Moyne de Bienville.</i> Par OLIVIER MAURAUULT, M.S.R.C.	47
<i>L'Orfèvre François Sasseville.</i> Par GÉRARD MORISSET, M.S.R.C.	51
<i>Le devoir des parents et des éducateurs dans la guerre à l'alcoolisme.</i> Par ADRIEN PLOUFFE, M.S.R.C.	55
<i>Une Polémique du Père Duplessis.</i> Par GUY SYLVESTRE, M.S.R.C.	73
<i>Un Pensionnat à l'Hôpital-Général de Québec, 1725-1868.</i> Par LOUIS-PHILIPPE AUDET	79

SECTION II

<i>The Threat of Over-Population.</i> Presidential Address By D. A. MACGIBBON, F.R.S.C.	1
<i>Toynbee and the Problem of Climaxes in the Development of the Fine Arts.</i> By ALFRED G. BAILEY, F.R.S.C.	13
<i>Louise Labé: The Sappho of the Renaissance.</i> By SKULI JOHNSON, F.R.S.C.	23
<i>The Epic Poetry of Mickiewicz.</i> By WATSON KIRKCONNELL, F.R.S.C.	39
<i>The Challenge to Prose.</i> By HUGH MACLENNAN, F.R.S.C.	45
<i>The Bias of Prairie Politics.</i> By W. L. MORTON	57

CONTENTS

vii

<i>"Forests" and Woods in Mediaeval England.</i> By F. G. ROE . . .	67
<i>Recent Changes in Government Attitudes towards Immigration.</i> By MABEL F. TIMLIN, F.R.S.C.	95

SECTION III

<i>The Metric of a Conformally Euclidean Space referred to a Subspace.</i> By RICHARD BLUM	1
<i>A Quasi-Linear Boundary Value Problem.</i> By G. F. D. DUFF . . .	7
<i>On Commuting Automorphisms of Rings.</i> By NATHAN DIVINSKY . .	19
<i>On a Theorem of Frobenius-König and J. von Neumann's Game of Hide and Seek.</i> By LLOYD DULMAGE and ISRAEL HALPERIN, F.R.S.C.	23
<i>Radical Rings with Nilpotent Associated Groups.</i> By S. A. JENNINGS.	31
<i>On a Theorem of Poincaré and Malkin.</i> By EUGENE LEIMANIS . .	39
<i>An Asymptotic Formula for the Bell Numbers.</i> By LEO MOSER and MAX WYMAN, F.R.S.C.	49
<i>Infinite Stochastic Matrices.</i> By B. A. RATTRAY and J. E. L. PECK .	55
<i>A Generalization of Some Theorems of Hardy.</i> By P. G. ROONEY .	59

SECTION IV

<i>Geology in the Van.</i> Presidential Address. By J. B. MAWDSLEY, F.R.S.C.	1
<i>Archean Monazite in Beach Concentrates, Yellowknife Geologic Province, Northwest Territories, Canada.</i> By R. E. FOLINSBEE .	7
<i>Precambrian Nomenclature in Canada.</i> By J. E. GILL, F.R.S.C. .	25
<i>Carbon-14 Age Determinations at the University of Saskatchewan.</i> By K. J. MCCALLUM, F.R.S.C.	31
<i>Report of the Committee on Precambrian and Related Dating.</i> By J. B. MAWDSLEY, F.R.S.C., and R. M. FARQUHAR	37
<i>Archaeocyatha from the McDame Area of Northern British Columbia.</i> By VLADIMIR J. OKULITCH, F.R.S.C.	47
<i>The Physics of Orogenesis in the Light of New Seismological Evidence.</i> By A. E. SCHEIDEGGER	65
<i>Some Ordovician Halysitoid Corals.</i> By G. WINSTON SINCLAIR . .	95
<i>Uranium-Rich Thorianite from Pontiac County, Quebec.</i> By JOHN S. STEVENSON, F.R.S.C., and LOUISE STEVENS STEVENSON, F.R.S.C.	105

<i>Biogeochemical Prospecting in Northern Latitudes.</i> By HARRY V. WARREN, F.R.S.C., and ROBERT E. DELAVAUT	111
<i>The Age of the Fossil Hill Coral Reefs.</i> By M. Y. WILLIAMS, F.R.S.C.	117

SECTION V

<i>The Balance of Bacterial Virulence.</i> Presidential Address, by E. G. D. MURRAY, F.R.S.C.	1
<i>Studies in Potentillae of High Latitudes and Altitudes.</i> By PIERRE DANSEREAU, F.R.S.C.	11
<i>Seasonal Variations in the Resistance of Goldfish to Temperature.</i> By WILLIAM S. HOAR	25
<i>Evolution of Meristic Relations in the Dorsal and Anal Fins of Teleost Fishes.</i> By C. C. LINDSEY	35
<i>Range of Structural Variation in Organic Terrain.</i> By NORMAN W. RADFORTH	51
<i>Assessment of Early Differentiation in Pinus Proembryos Transplanted to in vitro Conditions.</i> By NORMAN W. RADFORTH and LOUISE C. PEGORARO	69

OCEANOGRAPHIC SESSION

<i>The Present Status of Climatic Change in the Atlantic Sector of Northern Seas, with Special Reference to Canadian Eastern Arctic Waters.</i> By M. J. DUNBAR, F.R.S.C.	1
<i>Annual Variation in Pressure and Surface Winds over the Atlantic between Labrador and Greenland.</i> By J. G. POTTER	9
<i>Climatic Trends along the Atlantic Coast of Canada.</i> By M. K. THOMAS.	15

The publications of the Royal Society of Canada are indexed in
Canadian Index.